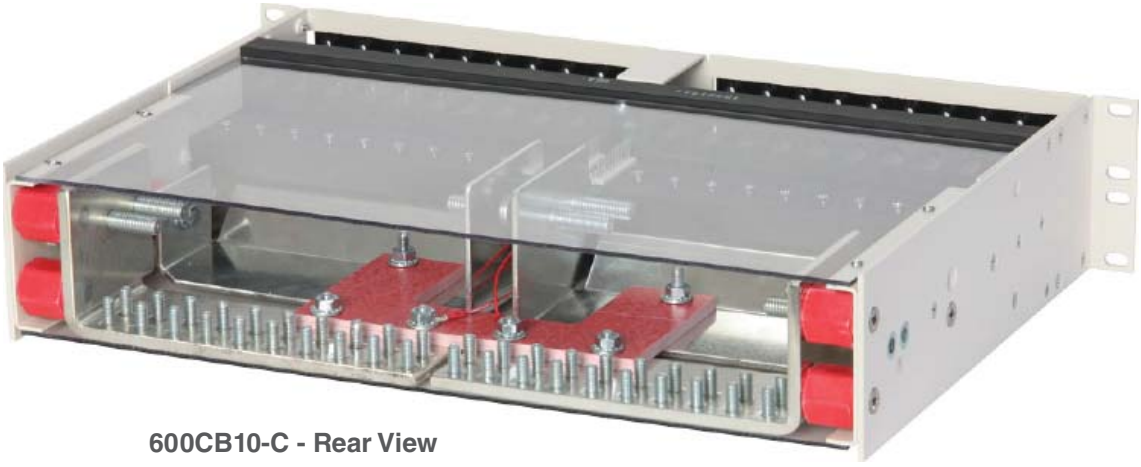
Dual-Feed 600A Load Center Frame

Power :: 600CB10 and 600CB12
User Manual

600CB10 - Front View



600CB10-C - Rear View

Applies to : 600CB10 :: 600CB10-C :: 600CB10-VL :: 600CB10-CL :: 600CB12 :: 600CB12-C :: 600CB12-VL :: 600CB12-CL

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Dual-Feed 600A Load Center Frame

Power :: Models 600CB10 and 600CB12

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Dual-Feed 600A Load Center Frame

Power :: Models 600CB10 and 600CB12

1.1 Overview

Telect's dual-feed 600A per feed load center frames provide high-capacity, -48V and ±24V power protection for secondary power distribution and data and communications equipment. Telect's load center frames are also ideal for primary distribution in small central offices and at remote sites.

Models 600CB10 and 600CB12 are open-frame chassis providing excellent heat dissipation and overhead access to the load center's BATT and RTN terminals, vertical inputs.

Models 600CB10 and 600CB12 are white, 2RU, and fit racks with either EIA or WECO spacing.

- Model 600CB10 contains 10 interrupter positions on each side and fits a 19-in. rack (an adapter kit can be purchased separately to mount the 600CB10 in a 23" rack).
- Model 600CB12 has 12 interrupter positions on each side and fits a 23-in. rack.

Figure 1 - 600CB10, 19" 10/10 Position Load Center Frame

Both accommodate AIRPAX®-style LEL or Carling CA1 circuit breakers or fuses (TPC/TPW and TPS/TLS) in single- through quad-pole configurations. Each circuit breaker or fuse pole position accommodates a bullet-style, plug-in circuit breaker or fuse holder up to 100A. With double-pole circuit breakers or TPW fuses, the maximum output load can be up to 200A. With the triple-pole circuit breakers the maximum load is 250A and with quad-pole circuit breakers the maximum load is 400A.

Sides A and B are electrically isolated except for the alarm card, which contains power, fuse and bay status relays with dry, Form-C contacts. The contacts are connected to wire-wrap pins to switch on external power to visual/audio external alarms. The alarm card also controls the three dual-color LEDs on the front panel.

All input, output, and alarm terminals are within the open-frame chassis. All BATT and RTN inputs, outputs, and ground accommodate dual-hole lugs. Input and output terminals are studs and the ground terminals are bolt connections at the sides of the load center near the rear corners. Only one ground connection is required.

Fuses, fuse holders, and circuit breakers are sold separately. Also sold separately are single-, double-, triple-, and quad-pole straps for the output of the breakers or fuses. These copper straps bridge the output of the fuse holders or circuit breakers to the output studs. See telect.com to order breakers, fuses, fuse holders, and load straps.

The 600CB10-C and 600CB12-C provide horizonal inputs and a cover. The 600CB10-CL and 600CB12-CL also provide horizontal inputs, a cover and single-pole load straps pre-installed into the panel.

The 600CB10-VL and 600CB12-VL provide vertical inputs as well as single-pole load straps pre-installed into the panel.

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1.2 Installation Guidelines

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Disconnect Device - A readily available disconnect device shall be incorporated in the building installation wiring.

1.3 Specifications

Inputs:	Specifications:
Voltage range (nominal voltage)	±21.6V to ±30V (nominal ±24 VDC) -40V to -60V (nominal -48 VDC)
Max. input load rating	600A per side at max. operating ambient of 49°C (120°F)
Short circuit withstand rating	5000A
Nominal power loss at full load	Less than 75W per side @ 28,800W full load per side (600A x 48V)
Percentage of full power dissipation at nominal voltage	Less than 1%
Max. input interrupt device	750A
Input terminal studs (with nuts, flat washers, and spring washers) for dual-hole compression lugs	Two pairs of 3/8 - 16 studs on 1-in. centers per terminal [max. lug width of 1.94-in. (49.2 mm)] per pair. Torque nut (using 9/16-in. or 15 mm wrench) to 150-in./lb. (~17 N•m), max.
Input wire size	#1 AWG to 750 MCM
Grounding:	**Specifications:**
Earth GND terminal bolts (with washers) for dual-hole compression lug	Two pair of 1/4 - 20 threaded holes on 5/8-in. centers. Torque bolts (using 7/16-in. or 12 mm wrench) to 50-in./lb. (5.5 N•m), max.
Ground wire size	#2 AWG (min.) for any input interrupt device 400A or more

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Dual-Feed 600A Load Center Frame

Power :: Models 600CB10 and 600CB12

Outputs:	Specifications:
Max. output circuit breaker or fuse holder	Single-pole: 100A; Double-pole: 175A
Max. output load - continuous	Single-pole: 80A; Double-pole: 140A
Minimum short circuit interrupt rating	5000A
Max. total output load	550A per side
Output terminal studs (with KEPS nuts and washers) for dual-hole compression lugs	1/4 - 20 studs on 5/8-in. centers [max. lug width of 0.625-in (15.8 mm) for a BATT terminal and 0.70 (17.7 mm) for a RTN terminal]. Torque bolts (using 7/16-in. or 12 mm wrench) to a 50-in./lb. (5.5 N•m), max.
Output wire size	• #10 AWG (min.) for a 25A single-pole interrupter to #2 AWG (min.) for a 100A single-pole interrupter • #2 AWG (min.) for double-pole interrupters from 100 to 175A • 2/0 AWG (min.) for triple-pole interrupters • 4/0 AWG (min.) for quad-pole interrupters
Circuit breakers*	• AIRPAX®-style LEL or Carling-style CA1**
Fuses and fuse holders	• TFD fuse holders for single-pole TLS or TPS fuses • TPC DC-BBE-3 fuse holders for single-pole TPC fuses • TPW fuse holders for double-pole TPC fuses
Alarms:	**Specifications:**
Alarm relay contacts	2A @ 30 VDC; 0.6A @ 60 VDC
Max. alarm card power rating	@24V: 103 mA (2.47W); @48V: 128 mA (6.14W)
Alarm wire size	#24 AWG, typical (#26 to #20 AWG)
Alarm terminals	Wire wrap
Dimensions:	**Specifications:**
600CB10 width (all models) 600CB12 width (all models) Height Depth	19-in. (483 mm) 23-in. (584 mm) 3.5-in. (88 mm) 12-in. (305 mm)
Dimensions:	**Specifications:**
Weight, without packaging and accessories	600CB10: 18 lbs. (8.2 kg); 600CB12: 22 lbs. (10 kg) 600CB10-xL: 21 lbs. (9.5 kg); 600CB12-xL: 25 lbs. (11.3 kg)
Weight, shipping	600CB12: 25 lbs. (11 kg); 600CB12: 30 lbs. (14 kg) 600CB12-xL: 28 lbs. (12.7 kg); 600CB12-xL: 33 lbs. (15 kg)
Environment:	**Specifications:**
Operating temperature	-10°C (14°F) to 55°C (131°F)
Humidity	90% and non-condensing
Compliance:	**Specifications:**
	UL Recognized, NEBS Level 3

* Telect suggests you avoid using different types of circuit breakers or fuses in the same load center. Alarm contacts may vary among interrupter manufacturers and may incapacitate the alarm system.

** Circuit breakers for this load center are designed and manufactured by Airpax Corporation and Carling Industries to meet Telect's specifications. Order circuit breakers only from Telect.

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ALERT

ALERT! Only qualified technicians may install and maintain this product. Verify all connections meet requirements specified in local electric codes or operating company guidelines before supplying power. Protect this equipment with a fuse or breaker sufficient to interrupt power levels specified.

Install this product in locations accessible only to qualified personnel. The panel weighs more than 35 lbs. (~16 kg); two persons may be required for handling and installing the Load Center Frame.

1.4 Installation Instructions

Please read these instructions carefully before beginning installation. If assistance is required, call Technical Support at 888-821-4856, or 509-921-6161, or e-mail getinfo@telect.com.

- Telect is not liable for shipping damage. If damaged, notify the carrier and call Telect's Customer Service Department at 800-551-4567, or 509-926-6000 for further recourse.
- Telect recommends that you install load straps before installing the load center on the rack. Also, install load straps now for future add-on loads.
- Inspect equipment after unpacking and compare it to the packing list. Immediately report any shipping damage, defects, or missing parts to Telect at 800-551-4567. Keep all documentation that comes with your shipment.

1. Assign interrupter positions and install load straps for those positions before installing the load center in a rack as follows:

   a. Choose interrupter positions for breakers or fuses.

      You may mix interrupter ratings and single- and multi-pole interrupters in the same load center. Telect recommends not mixing fuses with circuit breakers.

      - Avoid mixing non-mid-trip and mid-trip breakers.
      - Avoid mixing TLS/TPS with TPC fuses. (TLS and TPS fuses are compatible but made by different manufacturers.)
      - Do not use multiple, single-pole breakers or fuses with multi-pole load straps.

   b. Record interrupter position(s) and amperage of each intended interrupter.
      - To mitigate heat build up caused by heavy loads $\geq$100A, plan a space on one side those interrupters.

   c. Remove bottom screw holding circuit breaker cover to selected interrupter positions. Refer to Figure 2.
      - Retain screw and cover if you intend to use circuit breakers.
      - Retain screw but discard cover if you intend to use fuses.
      - Remove corresponding screw in plastic load-strap support.
      - Slip receptacle(s) of load strap into plastic load strap receptacle holder and fasten with screw removed in the previous step.

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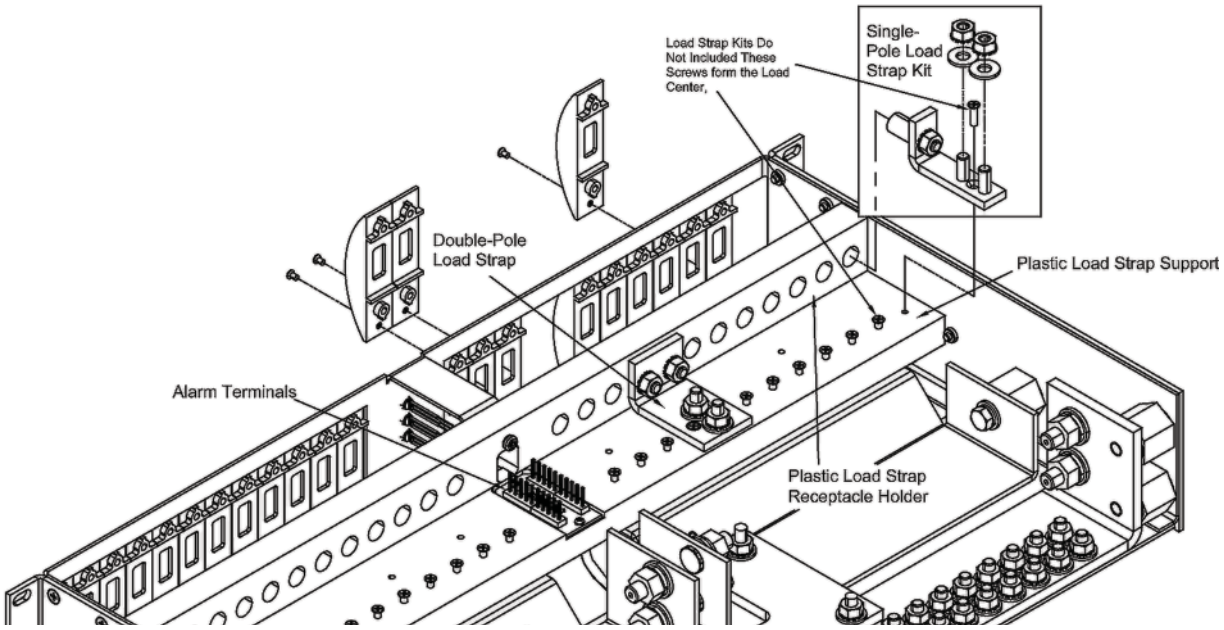
Load Strap Kits Do Not Included These Screws form the Load Center,
Single-Pole Load Strap Kit
Double-Pole Load Strap
Plastic Load Strap Support
Alarm Terminals
Plastic Load Strap Receptacle Holder

Figure 2 - Installing Load Straps

2. Turn over the load center and check the jumper settings on the alarm board located on the underside of the chassis. Refer to Figures 3 and 4. The jumpers are set up for REC-4 (non-mid-trip) circuit breakers and fuses. If you plan on using RLS-4 mid-trip circuit breakers, change the jumper setting as indicated.

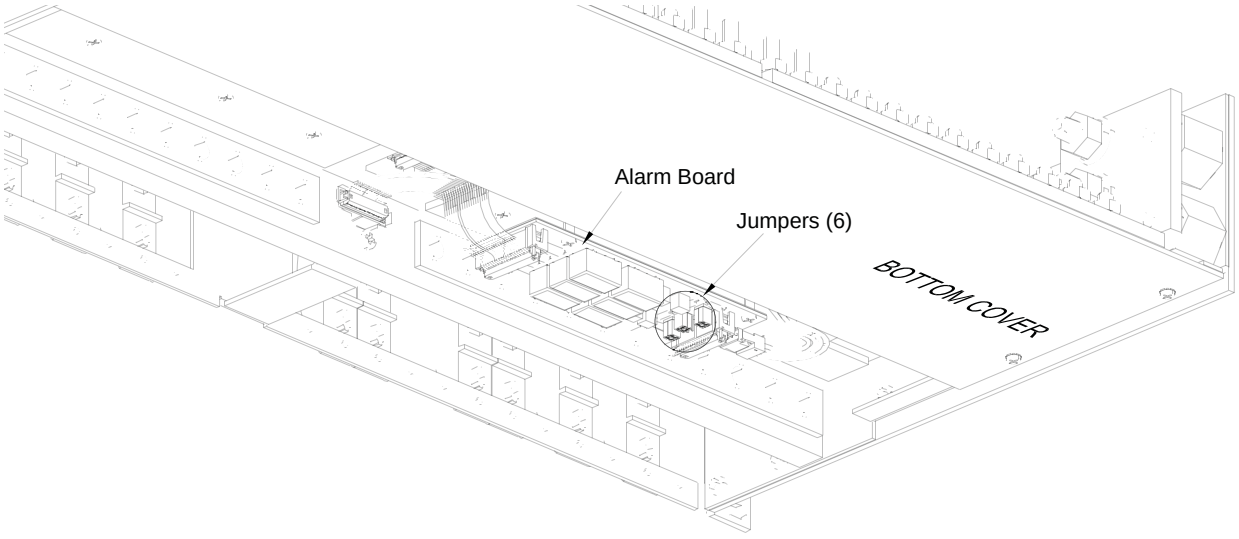

Figure 3 - Alarm Board Location
(bottom view of side A)

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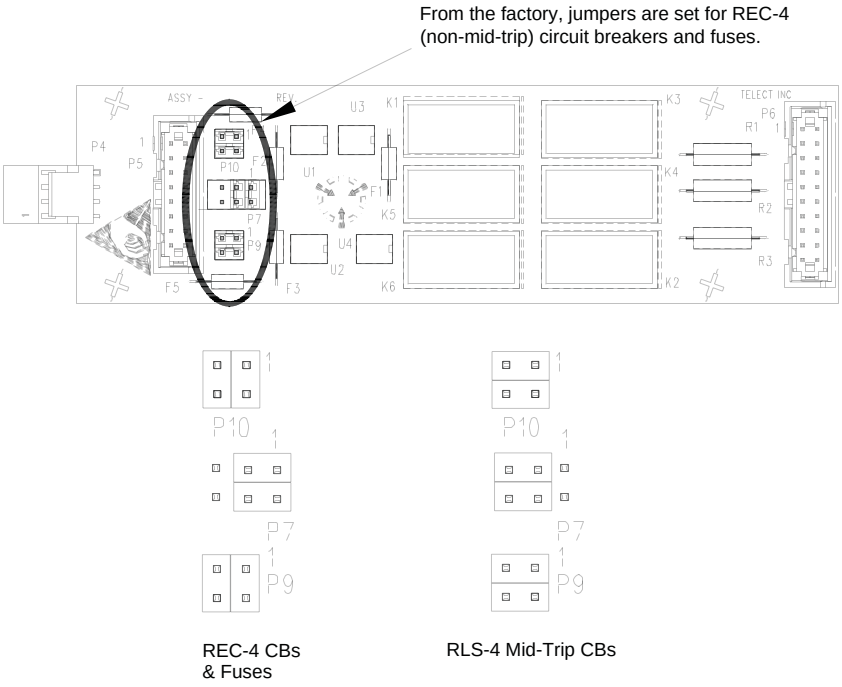

Figure 4 - Alarm Board Jumper Settings

3. If you intend to install alarm wiring for load center and/or bay alarms, consider doing so now before installing the load center in the rack. The alarm terminal is located near the top center of the load center. Refer to Figure 5.

   a. If you intend the alarm wires to exit at the back of the rack, don't forget to feed alarm wiring from the back to the front of the rack before wire wrapping the alarm pins.

   b. It is possible to use a short, manual wire-wrap tool to install alarm wiring after securing the load center to the rack. If you intend to use a power or larger manual wire-wrap tool, you must install alarm wiring now.

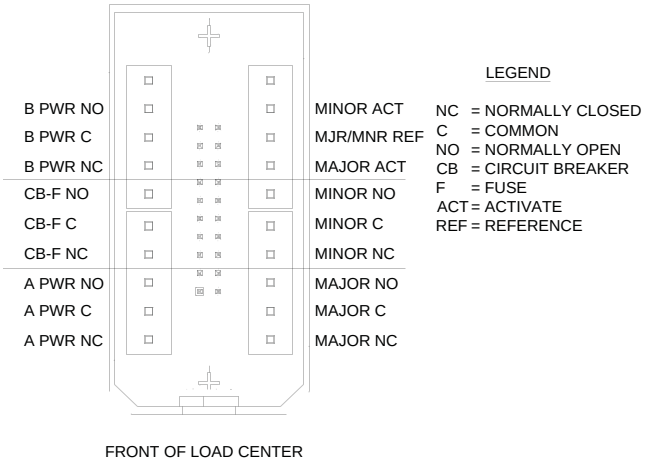

Figure 5 - Alarm Wiring

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4. Locate an unused rack position and mount the load center using at least two sets of fasteners per side, as shown in Figure 6.

   Mount the panel as high as possible on the rack, leaving at least 1RU of access space above the load center. Tighten screws to 35-in./lb. (4.29 N•m).

   Telect recommends using a seismic rack for best rigidity.

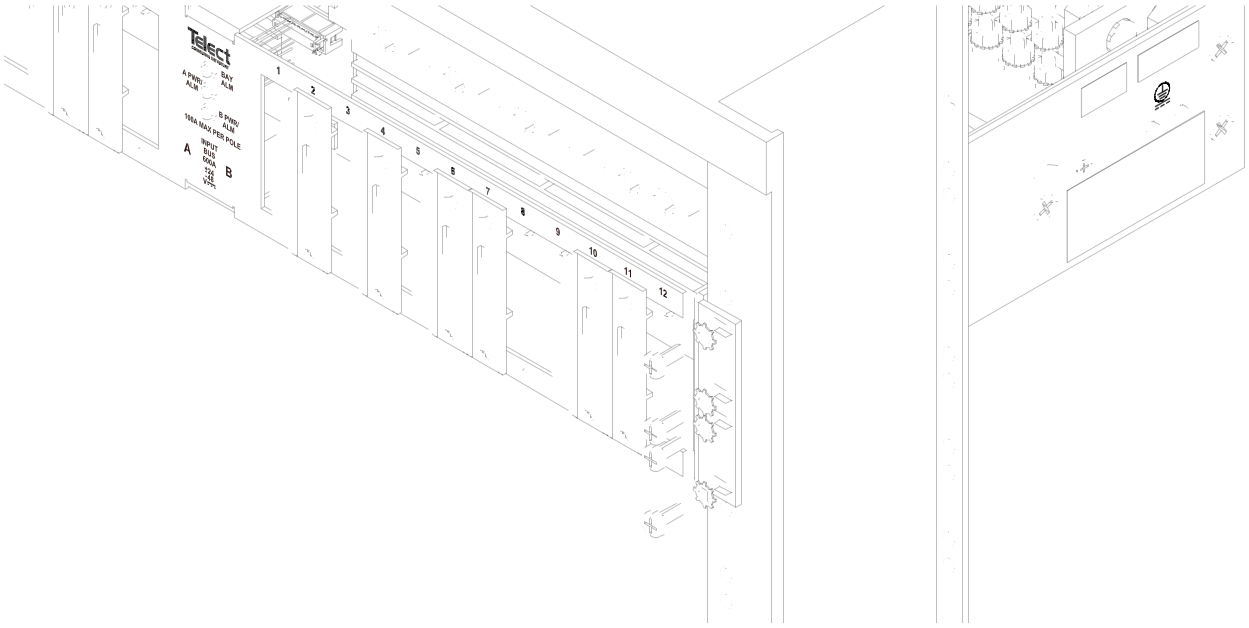

Figure 6 - Rack Mounting

⚠ WARNING

WARNING! Failure to properly ground this equipment can create hazardous conditions to installation personnel and to the equipment.

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ALERT

ALERT! Only use components and crimping tools approved by agencies or certifying bodies recognized in your country or region such as Underwriter's Laboratories (UL), TUV, etc.

5. Use an approved crimping tool to attach approved, dual-hole compression lug onto suitable grounding wire. (Size of ground depends on input interruption device.)

6. If required, lightly coat anti-oxidant on lug and grounding surface on side of panel. Connect the lug using 1/4 - 20 bolts, flat washers, and split washer provided, as shown in Figure 7. Tighten the bolt to 50-in./lb. (5.5 N•m).

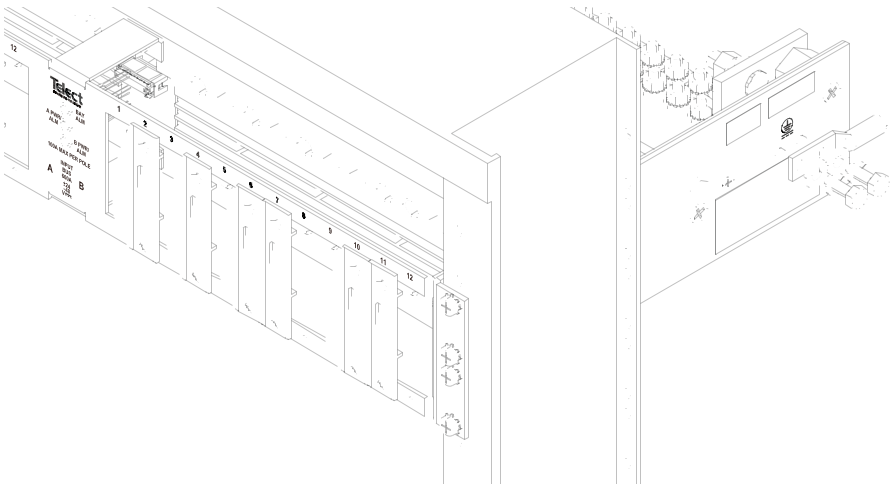

Figure 7 - Ground Lug Connection

WARNING

WARNING! Before connecting input power cables, make sure input power to the panel is turned off.

7. Make sure input power is off before connecting this panel's input cables to PDU or battery.

8. For input wiring, crimp dual-hole compression lugs onto #1 AWG to 750 MCM copper wires. The choice of input wiring depends on the following criteria:
   - Input interrupt device rating affects size of input wiring.
   - Ambient operating temperature affects the type of input wire insulation. Use the table on the following page to choose the correct temperature-rated input wires. For further information, consult the National Electrical Code (NEC).

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Ambient Operating Temperature Range	Max. Current Rating Per Side	Min. Cable Insulation Temperature Rating
-5° to 49°C (23° to 120°F)	600A	75°C (167°F)
49° to 55°C (120° to 131°F)	550A	75°C (167°F)
49° to 55°C (120° to 131°F)	600A	90°C (194°F)

9. Insulate the lug barrels with UL94 V-0 rated heat shrink tubing.

10. Clean terminals and lugs with a non-abrasive, non-mettalic pad.

11. If required, lightly coat anti-oxidant on lugs and input BATT and RTN terminals, and then connect lugs to input terminals, as shown in Figure 8. Tighten lugs to 150-in./lb. (~17 N•m), max.

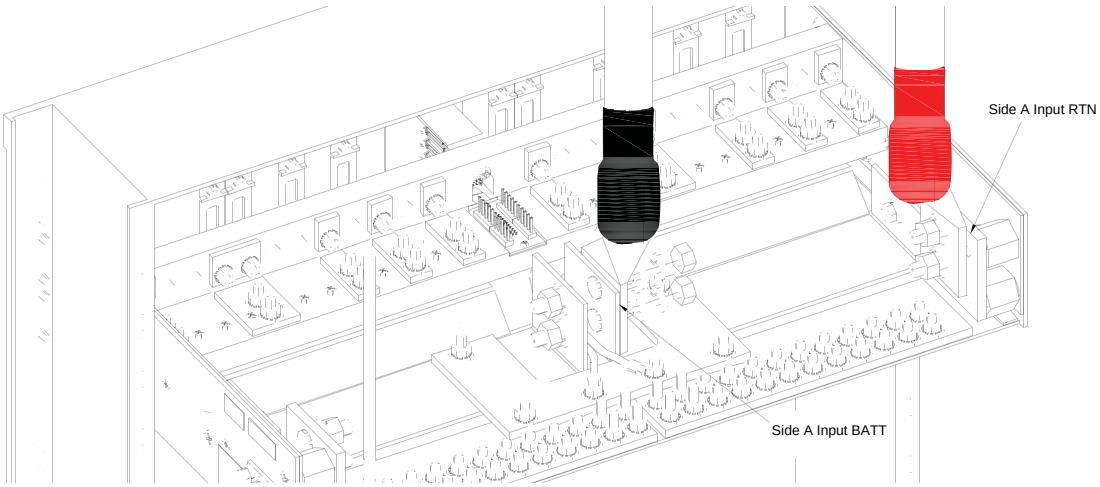

Figure 8 - Input Lugs

12. Make sure the breaker or fuse holder positions are either empty, off, or contain dummy fuses (phoney, inoperative, all-plastic slugs).

13. Enable the fuse or breaker at primary distribution unit or battery (750A max.) to turn on Feed A to Side A of load center and then check voltage and polarity at input connectors of the panel. Verify the following:
    - A PWR LED on front of panel turns green.
    - B PWR LED turns red.

14. With A PWR LED green (normal operation) - but with B PWR LED red (off or failure operation) - test A PWR relay and contact alarm terminal:
    - Expect continuity (0Ω) between Terminals C and NC.
    - Expect an open circuit (∞Ω) between Terminals C and NO.

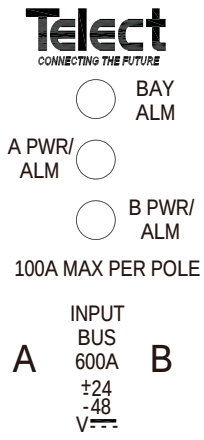

Figure 9 - LED Panel

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15. Also, test fuse alarm relay contacts at CB-F alarm terminals.
    - Expect continuity (0Ω) between Terminals C and NC.
    - Expect an open circuit (∞Ω) between Terminals C and NO.

16. Repeat Steps 13 and 14 to power up Side B. A PWR and B PWR LEDs must both be green.

17. Make sure input power is off again before installing output wiring to this device.

18. For output wiring, crimp dual-hole lugs onto one end of #10 to #2/0 AWG copper output wires, as required by NEC. (Work with one output wire at a time.)

19. Insulate lug barrels with UL94 V-0 rated heat shrink tubing.

20. Clean the panel terminal and lugs with non-abrasive, non-metallic pad.

21. If required, lightly coat anti-oxidant on lugs and output BATT and RTN terminals, and then connect lugs to terminals, as shown in Figure 10. (NEC specifies only one lug and load at each output terminal.) Tighten nuts to no more than 50-in./lb. (5.6 N•m), max., and then connect other end of output wire to load.

22. Install circuit breakers or fuses, as shown in Figures 11 and 12.

    a. Use screws provided with circuit breaker or fuse holder to attach cover to breaker or holder. (Use the cover removed previously for circuit breakers. The fuse holder requires a cover.)

    b. Insert a breaker in the load center frame. ("Line" is on top. Breaker is "upside down" so ON toggle is up.) Or, insert holder in load center frame ("Load" is on top).

    c. Fasten the cover to the load center using the screw previously removed with the cover in Step 1.

    d. If applicable, install fuse.

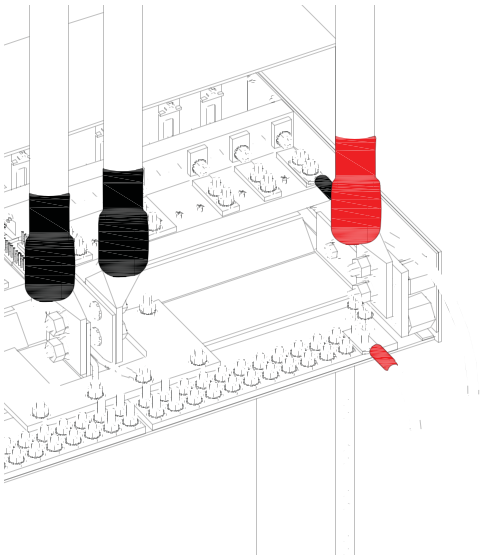

Figure 10 - Output Lug Connections

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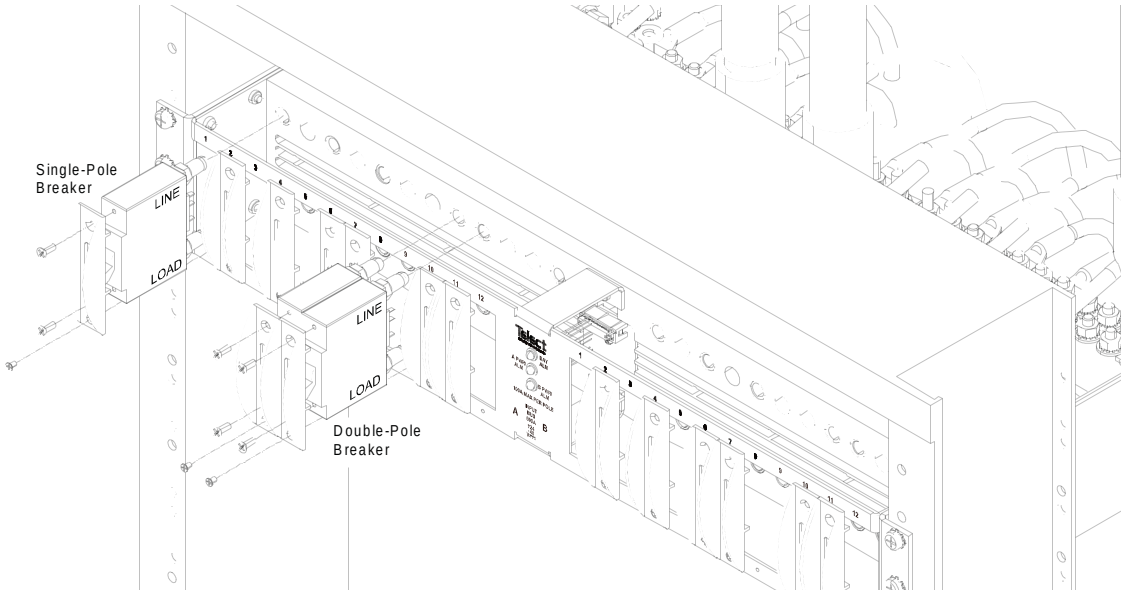

Figure 11 - Installing Circuit Breakers

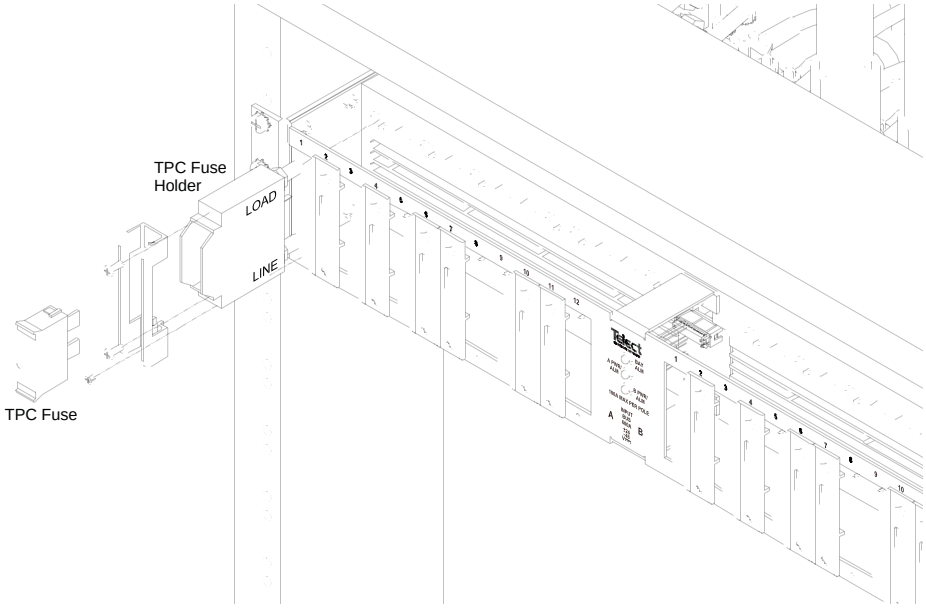

Figure 12 - Installing Fuse Holders and Fuses

23. With the output loads (devices fed by this load center) disabled, re-enable fuses or breakers at primary distribution unit or battery.

24. If applicable, switch circuit breakers ON and then check voltage and polarity *at loads.*

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25. If possible, either replace one of the functioning fuses with a blown fuse or switch OFF breaker.
    - For a load center with fuses or non-mid-trip circuit breakers, the applicable ALM LED will turn red.
    - For a load center with mid-trip breakers, the applicable ALM LED will remain green.

26. Check the CB-F alarm terminals. For a load center with fuses or non-mid-trip circuit breakers, expect the following:
    - An open circuit (∞Ω) between Terminals C and NC
    - Continuity (0Ω) between Terminals C and NO.

27. For a load center with mid-trip breakers, expect the following:
    - Continuity (0Ω) between Terminals C and NC
    - An open circuit (∞Ω) between Terminals C and NO.

28. Re-install operable fuses or switch ON breakers before proceeding.

29. Record circuit assignments in accordance with operating company procedures and guidelines.

30. Lastly, enable equipment loads one at a time to verify proper operation of loads.

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Dual-Feed 600A Load Center Frame

Power :: Models 600CB10 and 600CB12

1.5 Parts & Accessories

The following tables list optional and replacement items for the load center. For wire sizing and labeling, please refer to *Wire Sizing & Label Convention* (Telect part number 117995) included with your load center. Order parts and accessories online at telect.com.

ALERT

ALERT! Use only UL-listed or UL-recognized component secondary protection devices.

Steps for configuring a panel:

1. Choose vertical or horizontal input
2. Determine the quantity of load connections required (one load connection per populated fuse or circuit breaker position
3. Choose multi-pole connections if required
4. Select circuit breakers or fuses
   - If fuses, choose TPC or TFD holders
   - If circuit breakers (or fuse holders), select quantity equal to number of load connections
   - Select circuit breaker or fuse amperage values

Panel	Part Number
600A Dual-feed 10/10 load center frame, vertical inputs	600CB10
600A Dual-feed 10/10 load center frame, hoirzontal inputs	600CB10-C
600A Dual-feed 10/10 load center frame, vertical, loaded	600CB10-VL
600A Dual-feed 10/10 load center frame, horizontal, loaded	600CB10-CL
600A Dual-feed 12/12 load center frame, vertical inputs	600CB12
600A Dual-feed 12/12 load center frame, horizontal inputs	600CB12-C
600A Dual-feed 12/12 load center frame, vertical, loaded	600CB12-VL
600A Dual-feed 12/12 load center frame, horizontal, loaded	600CB12-CL
Adapter kit to mount 600CB10 in a 23" rack	02117-02+746
Adapter kit for double-pole input[1]	600CB1X-2FA

Load Connections	Part Number
Single-pole	600CB1X-1PK
Double-pole	600CB1X-2PK
Triple-pole	600CB1X-3PK
Four-pole	600CB1X-4PK

Single-pole Breakers	Part Number	Multi-pole Breakers	Part Number
30A	116671	125A (2-pole)	134634
40A	116672	150A (2-pole)	134635
50A	116673	175A (2-pole)	135921
60A	118160	200A (3-pole)	134636
70A	118161	225A (3-pole)	134637
80A	118162	250A (3-pole)	134638
90A	118163	400A (4-pole)	143962
100A	118159	Adapter[2] (1" C-C)	600CB08-RPK

Fuses	TPC	TPS	TLS
25A	125441	130476	N/A
30A	125442	130478	N/A
40A	125443	130482	N/A
50A	125444	130484	N/A
60A	125445	130486	N/A
70A	N/A	130488	N/A
75A	125446	N/A	N/A
80A	N/A	N/A	140640
90A	1254477	N/A	140641
100A	125448	N/A	140642
125A	125449	N/A	140644
TPC fuse holder[3]		129347	
TFD fuse holder (for TPS/TLS fuses)[3]		129816	
Fuse holder cover[4]		600CBXX-CFK	

1 Two kits are required for dual feed inputs.
2 Required when using the 600CB1X-3PK or 600CB1X-4PK.
3 Holder kits contain fuse holder, cover, and fasteners.
4 Load connection kits contain receptacle, strap assembly, and lug fasteners.

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ALERT

ALERT! Only use components and crimping tools approved by agencies or certifying bodies recognized in your country or region such as Underwriter's Laboratories (UL), TUV, etc.

Table 2 - Input power lugs

	400 MCM	500 MCM	750 MCM	777.7 MCM
T&B	54216 (Die code 76)	54218 (Die code 87)	--	--
Burndy	YA322TC38 (Die code 19)	YA342TC38 (Die code 20)	YA392NT38 (Die code 24)	YA44L-2NT38-FX (Die code L115)
Panduit	LCD400-38D-6 (Die code 76)	LCD500-38D-6 (Die code 87)	LCDN750-38D-6 (Die code 106)	--

Table 3 - Ground and circuit breaker output lugs (1/4-in. dual-holes on 5/8-in. centers, uninsulated)

	#8 AWG	#6 AWG	#4 AWG	#2 AWG	#2/0 AWG
T&B	542040410 (Die code 21)	54205 (Die code 24)	54206 (Die code 29)	54207 (Die code 33)	--
Burndy	YA8CL-2TC14 (Die code 49)	YA6CL-2L (Die code 7)	YA4C-2L (Die code 8)	YA2CL-2TC14 (Die code 10)	YA26L2NT14 (Die code 13)
Panduit	LCD8-14A-L (Die code 21)	LCD6-14A-L (Die code 24)	LCD4-14A-L (Die code 29)	LCD2-14A-Q (Die code 33)	LCDN2/0-14A-X (Die code 45)

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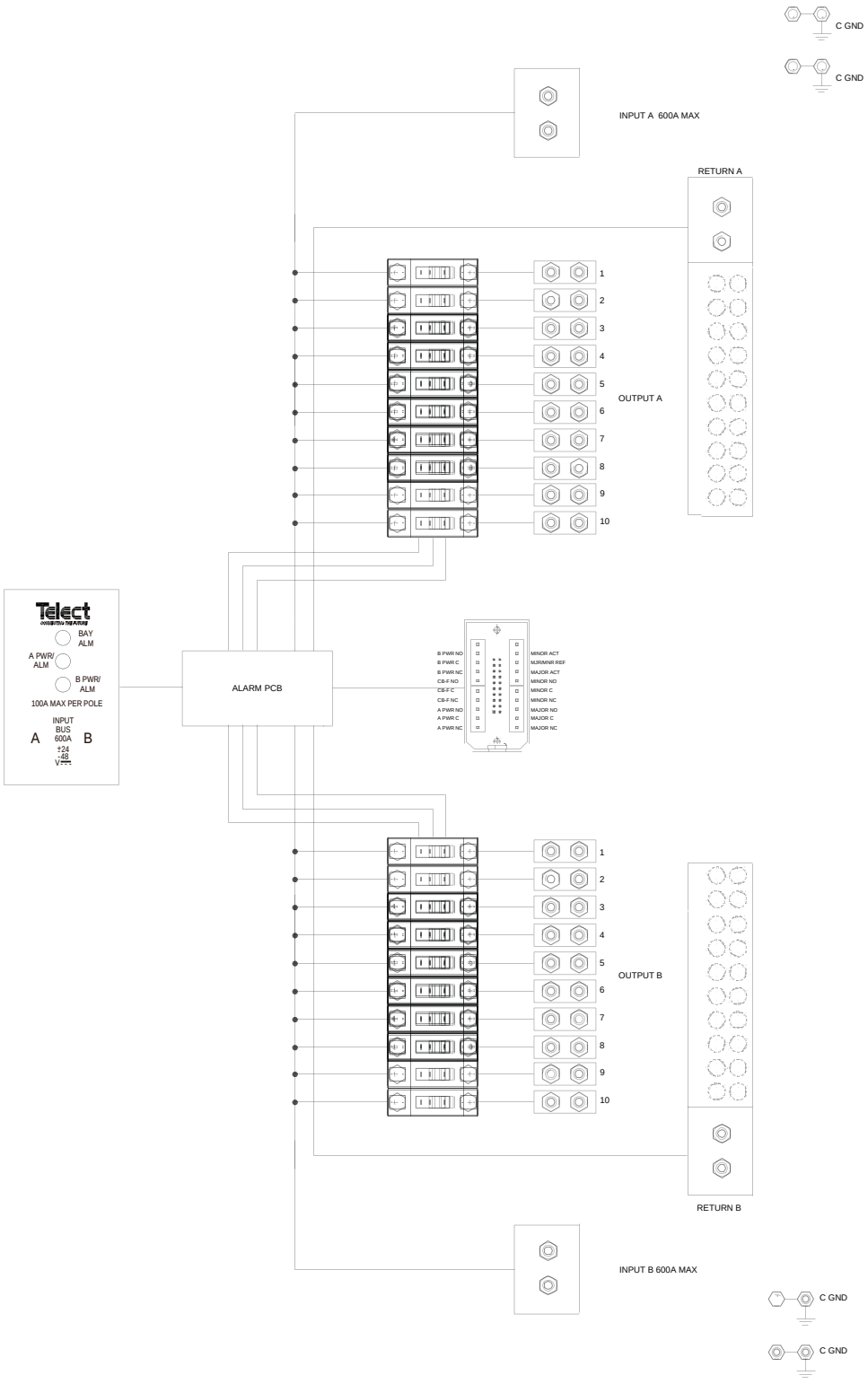
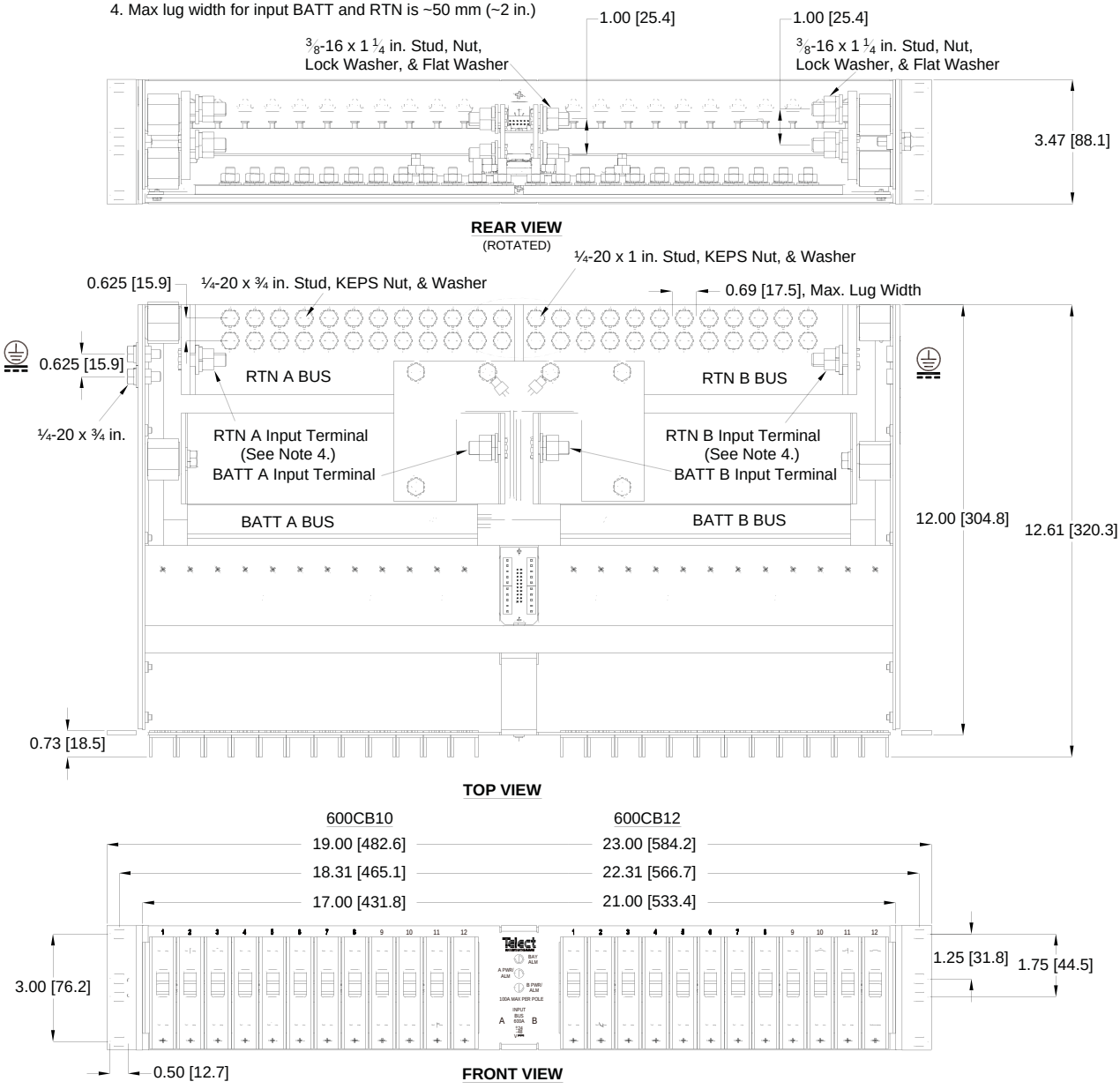
1.6 Interconnections



1.7 Drawings

NOTES 1. Dimensions are in in. [mm].
2. Breakers/Fuses sold separately.
3. Breaker/Fuse line straps sold separately.
4. Max lug width for input BATT and RTN is ~50 mm (~2 in.)



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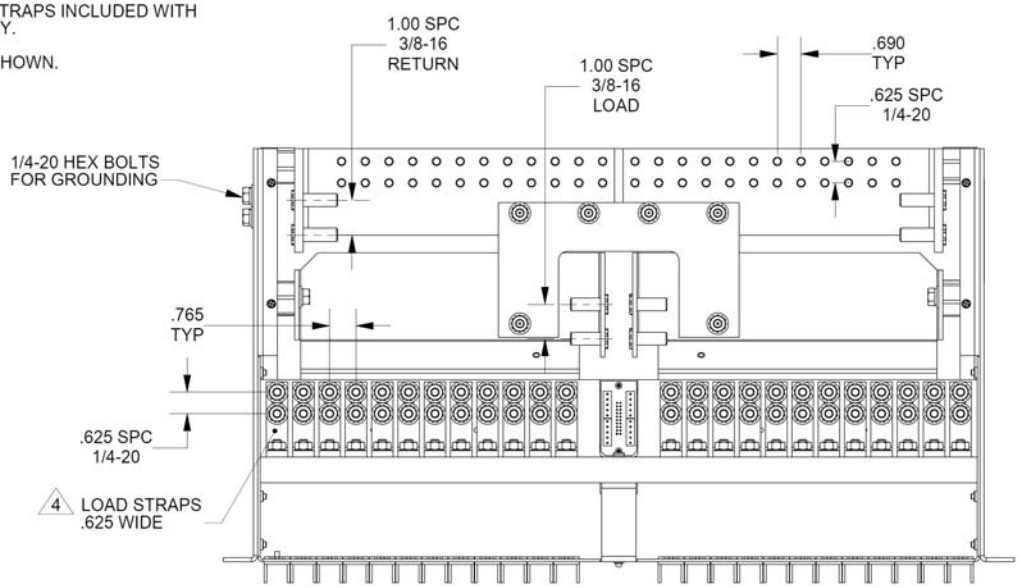
Dual-Feed 600A Load Center Frame

Power :: Models 600CB10 and 600CB12

NOTES: (UNLESS OTHERWISE SPECIFIED)

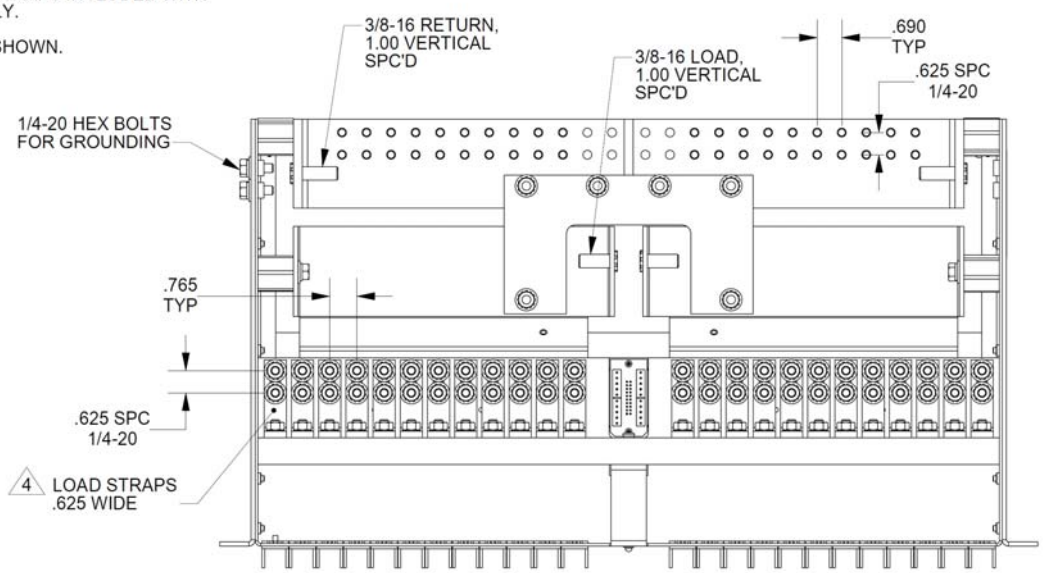
1. CONFORMS IN ACCORDANCE WITH ALL TELECT WORKMANSHIP STANDARDS.
2. DIMENSIONS ARE IN INCHES.
3. DIMENSIONS ARE FOR REFERENCE ONLY.
4. (24) LOAD STRAPS INCLUDED WITH 600CB12-CL ONLY.
5. 600CB12-CL SHOWN.



600CB12-CL - Top View

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. CONFORMS IN ACCORDANCE WITH ALL TELECT WORKMANSHIP STANDARDS.
2. DIMENSIONS ARE IN INCHES.
3. DIMENSIONS ARE FOR REFERENCE.
4. (24) LOAD STRAPS INCLUDED WITH 600CB12-VL ONLY.
5. 600CB12-VL SHOWN.



600CB12-VL - Top View

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